

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 235 711
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 87102486.5

(51) Int. Cl.4: F16D 23/06 , F16H 3/12

(22) Date of filing: 21.02.87

(30) Priority: 07.03.86 US 837112

(43) Date of publication of application:
09.09.87 Bulletin 87/37(84) Designated Contracting States:
DE ES FR GB IT SE(88) Date of deferred publication of the search report:
13.01.88 Bulletin 88/02(71) Applicant: EATON CORPORATION
Eaton Center
Cleveland Ohio 44114(US)(72) Inventor: Richards, Elmer Aaron
232 Falkirk Court Apt.B
Kalamazoo Michigan 49007(US)(74) Representative: Rüger, Rudolf, Dr.-Ing. et al
Patentanwälte Dr.-Ing. R. Rüger Dipl.-Ing. H.P.
Barthelt Webergasse 3 Postfach 348
D-7300 Esslingen/Neckar(DE)

(54) Blocked jaw clutch assembly.

(57) A blocked jaw clutch assembly (156) of the type having sensor unblocking ramps (176, 178, 180, 182) is provided with structure tending to cause the blocking torque friction surface (188) carried by the blocker ring (124) to frictionally engage the blocking torque friction member (190) carried by the first jaw clutch member (108, 164, 188) with a circumferentially non-symmetrical axial force.

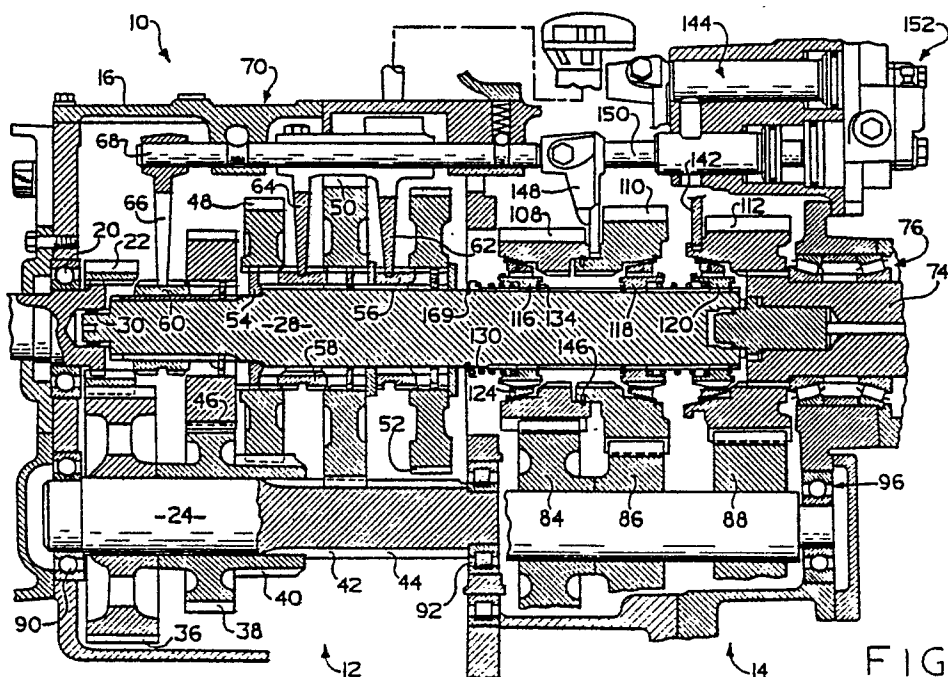


FIG. 2

EP 0 235 711 A3



EP 87 10 2486

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	US-A-3 688 883 (AUSTEN) * Whole document *	1, 2, 4, 15, 16	F 16 D 23/06 F 16 H 3/12
A	---	9, 10	
D, Y	US-A-3 921 469 (RICHARDS) * Whole document *	1, 2, 4, 15, 16	
D, A	---	9, 10	
D, Y	US-A-4 440 037 (FOXTON) * Columns 5-7; figures 1-3 *	15	
D, A	US-A-4 192 196 (BOGEMA) * Whole document *	1, 2, 9, 10, 15, 16	TECHNICAL FIELDS SEARCHED (Int. Cl.4) F 16 D 23/00 F 16 H
D, A	EP-A-0 071 353 (EATON CORP.) * Whole document *	15	
A	US-A-2 046 957 (MANVILLE) * Whole document *	1, 3, 17	
A	DE-A-2 639 662 (PORSCHE AG) * Whole document *	13	
	--- -/-		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-11-1987	Examiner BALDWIN D.R.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



EP 87 10 2486

DOCUMENTS CONSIDERED TO BE RELEVANT

Page 2

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-2 248 134 (SNOW)		

D,A	US-A-4 132 122 (RICHARDS)		

			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-11-1987	Examiner BALDWIN D.R.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons
& : member of the same patent family, corresponding document